



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

AVIAN TEST LAB PRIVATE LIMITED, DAG NO. 73, PATTA NO. 1, TAMULBARI, PANIKHAITI,
GUWAHATI, KAMRUP METRO, ASSAM, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-9890

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Validity

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- BUILDING MATERIAL	Admixture	Ash Content	IS 9103
2	CHEMICAL- BUILDING MATERIAL	Admixture	Chloride	IS 6925
3	CHEMICAL- BUILDING MATERIAL	Admixture	Dry Material Content	IS 9103
4	CHEMICAL- BUILDING MATERIAL	Admixture	pH	IS 9103
5	CHEMICAL- BUILDING MATERIAL	Admixture	Relative density	IS 9103
6	CHEMICAL- BUILDING MATERIAL	Bitumen/Modified Bitumen	Material Mineral ash	IS1217
7	CHEMICAL- BUILDING MATERIAL	Bitumen/Modified Bitumen	Solubility in Trichloroethylene	IS1216
8	CHEMICAL- BUILDING MATERIAL	Cement	Sulphuric anhydride	IS 4032
9	CHEMICAL- BUILDING MATERIAL	Cement	Alumina	IS4032
10	CHEMICAL- BUILDING MATERIAL	Cement	Calcium oxide	IS 4032
11	CHEMICAL- BUILDING MATERIAL	Cement	Chloride	IS4032
12	CHEMICAL- BUILDING MATERIAL	Cement	Combined ferric oxide and Alumina	IS4032
13	CHEMICAL- BUILDING MATERIAL	Cement	Ferric Oxide	IS4032
14	CHEMICAL- BUILDING MATERIAL	Cement	Insoluble residue	IS 4032
15	CHEMICAL- BUILDING MATERIAL	Cement	Loss on ignition	IS4032
16	CHEMICAL- BUILDING MATERIAL	Cement	Magnesium Oxide	IS4032
17	CHEMICAL- BUILDING MATERIAL	Cement	Silica	IS 4032
18	CHEMICAL- BUILDING MATERIAL	Coarse Aggregate	Alkali Aggregate Reactivity/Reduction in Alkalinity	IS 2386 (P-7)



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19	CHEMICAL- BUILDING MATERIAL	Coarse Aggregate	Alkali Aggregate Reactivity/Total Dissolved Silica	IS 2386 (P-7)
20	CHEMICAL- BUILDING MATERIAL	Fine Aggregate	Alkali Aggregate Reactivity/Reduction in Alkalinity	IS 2386(P-7)
21	CHEMICAL- BUILDING MATERIAL	Fine Aggregate	Alkali Aggregate Reactivity/Total Dissolved Silica	IS 2386(P-7)
22	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Carbon	IS 228(P-1)
23	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Manganese	IS 228(P-2)
24	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Phosphorous	IS 228(P-3)
25	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Silicon	IS 228(P-8)
26	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	Sulphur	IS 228 (P-9)
27	MECHANICAL- BUILDINGS MATERIALS	OPC/PPC	Compressive Strength (168 HRS.)	IS4031(P-6)
28	MECHANICAL- BUILDINGS MATERIALS	OPC/PPC	Compressive Strength(672 HRS.)	IS4031(P-6)
29	MECHANICAL- BUILDINGS MATERIALS	OPC/PPC	Consistency	IS 4031 (P-4)
30	MECHANICAL- BUILDINGS MATERIALS	OPC/PPC	Density	IS4031(P-11)
31	MECHANICAL- BUILDINGS MATERIALS	OPC/PPC	Setting Time (Initial)	IS4031(P-5)
32	MECHANICAL- BUILDINGS MATERIALS	OPC/PPC	Setting Time(Final)	IS4031(P-5)
33	MECHANICAL- BUILDINGS MATERIALS	OPC/PPC	Soundness by Autoclave Methode	IS4031(P-3)
34	MECHANICAL- BUILDINGS MATERIALS	OPC/PPC	Soundness by Le-Chatelier's Methode	IS4031(P-3)
35	MECHANICAL- BUILDINGS MATERIALS	Bitumen/Modified Bitumen	Absolute Viscosity at 60°C	IS1206(P-2)
36	MECHANICAL- BUILDINGS MATERIALS	Bitumen/Modified Bitumen	Bitumen Content	IRC SP-11



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37	MECHANICAL- BUILDINGS MATERIALS	Bitumen/Modified Bitumen	Bitumen Penetration	IS1203
38	MECHANICAL- BUILDINGS MATERIALS	Bitumen/Modified Bitumen	Ductility	IS1208
39	MECHANICAL- BUILDINGS MATERIALS	Bitumen/Modified Bitumen	Flash Point	IS1209
40	MECHANICAL- BUILDINGS MATERIALS	Bitumen/Modified Bitumen	Kinematic Viscosity at 135°C	IS1206(P-3)
41	MECHANICAL- BUILDINGS MATERIALS	Bitumen/Modified Bitumen	Softening Point(Ring& ball)	IS1205
42	MECHANICAL- BUILDINGS MATERIALS	Bitumen/Modified Bitumen	Specific gravity	IS1202
43	MECHANICAL- BUILDINGS MATERIALS	Bitumen/Modified Bitumen	Test on Residue from rolling thin film oven	IS9382
44	MECHANICAL- BUILDINGS MATERIALS	Bituminous Concrete	Marshal Stability	ASTM D-6927
45	MECHANICAL- BUILDINGS MATERIALS	Bituminous Concrete	Stripping Value	IS 6241
46	MECHANICAL- BUILDINGS MATERIALS	Brick(Burnt Clay / Fly ash)	Compressive Strength	IS 3495(P-1)
47	MECHANICAL- BUILDINGS MATERIALS	Brick(Burnt Clay/Fly ash)	Efflorescence	IS 3495 (P-3)
48	MECHANICAL- BUILDINGS MATERIALS	Brick(Burnt Clay/Fly ash)	Water absorption	IS 3495 (P-2)
49	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Fly Ash (Bricks)	Dimension, Height	IS 13757
50	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Fly Ash (Bricks)	Dimension, Length	IS 13757
51	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Fly Ash (Bricks)	Dimension,Width	IS 13757
52	MECHANICAL- BUILDINGS MATERIALS	Coars Aggregate	Soundness by MgSo4	IS 2386(P-5)
53	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Aggregate Impact Value	IS2386(P-4)
54	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Bulk density(Rodded)	IS2386(P-3)
55	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Clay Lump	IS2386(P-2)



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56	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Coal & Lignite	IS2386(P-2)
57	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Crushing Value	IS2386(P-4)
58	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Elongation Index	IS 2386(P-1)
59	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Flakiness Index	IS2386(P-1)
60	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Los Angeles Abrasion Value	IS2386(P-4)
61	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Material Finer than 75 micron	IS2386(P-1)
62	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Sieve Analysis(80,63,40,20,16,12.5,10,4,75,2.36,mm)	IS2386(P-1)
63	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Soundness by(Na2so4)	IS2386(P-5)
64	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Specific gravity	IS2386(P-3)
65	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Ten Percent Fines Value	IS2386(P-4)
66	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregate	Water absorption	IS2386(P-3)
67	MECHANICAL- BUILDINGS MATERIALS	Common Burnt Clay (Bricks)	Dimension, Height	IS 1077
68	MECHANICAL- BUILDINGS MATERIALS	Common Burnt Clay (Bricks)	Dimension,Length	IS 1077
69	MECHANICAL- BUILDINGS MATERIALS	Common Burnt Clay (Bricks)	Dimension,Width	IS 1077
70	MECHANICAL- BUILDINGS MATERIALS	Concrete Admixture	Compressive Strength	IS 516:(pt-1/sec-1)
71	MECHANICAL- BUILDINGS MATERIALS	Concrete Admixture	Setting Time (Final)	IS:1199(part-7)
72	MECHANICAL- BUILDINGS MATERIALS	Concrete Admixture	Setting Time(Initial)	IS1199(part-7)
73	MECHANICAL- BUILDINGS MATERIALS	Concrete Admixture	Slump Test	IS 1199



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74	MECHANICAL- BUILDINGS MATERIALS	Concrete Core	Compressive Strength	IS 516 (Pt-4)
75	MECHANICAL- BUILDINGS MATERIALS	Concrete Cube	Compressive Strength	IS 516:(pt-1/sec-1)
76	MECHANICAL- BUILDINGS MATERIALS	Emulsion	Coagulation of Emulsion at low temperature	IS 8887
77	MECHANICAL- BUILDINGS MATERIALS	Emulsion	Coating ability and Water resistance	IS 8887
78	MECHANICAL- BUILDINGS MATERIALS	Emulsion	Miscibility in Water	IS 8887
79	MECHANICAL- BUILDINGS MATERIALS	Emulsion	Residue by Evaporation	IS 8887
80	MECHANICAL- BUILDINGS MATERIALS	Emulsion	Residue on 600 micron IS Sieve	IS 8887
81	MECHANICAL- BUILDINGS MATERIALS	Emulsion	Stability to the Mixing With Cement	IS 8887
82	MECHANICAL- BUILDINGS MATERIALS	Emulsion	Storage Stability after 24 Hours	IS 8887
83	MECHANICAL- BUILDINGS MATERIALS	Emulsion	Viscosity by saybolt furol Viscometer	IS 3117
84	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulk density (Rodded)	IS2386(P-3)
85	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Clay Lump	IS2386(P-2)
86	MECHANICAL- BUILDINGS MATERIALS	Fine aggregate	Coal & Lignite	IS2386(P-2)
87	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Material finer than 75 micron	IS2386(P-1)
88	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Organic impurities	IS 2386(P-2)
89	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Sieve Analysis(10.0,4.75,2.36,1.18,0.600,0.300,0.150 mm)	IS2386(P-1)
90	MECHANICAL- BUILDINGS MATERIALS	Fine aggregate	Silt Content	CPWD SPECIFICATION
91	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness by (Na ₂ so ₄)	IS2386(P-5)



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92	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Soundness by MgSo4	IS 2386(P-5)
93	MECHANICAL- BUILDINGS MATERIALS	Fine aggregate	Specific Gravity	IS2386(P-3)
94	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Water absorption	IS2386(P-3)
95	MECHANICAL- BUILDINGS MATERIALS	Granular Sub Base(GSB)	Impact Value	IS2386(P-4)
96	MECHANICAL- BUILDINGS MATERIALS	OPC/PPC	Compressive Strength (72 HRS.)	IS4031(P-6)
97	MECHANICAL- BUILDINGS MATERIALS	OPC/PPC	Fineness by blain air Permeability Method	IS4031(P-2)
98	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Abrasion resistance	IS15658
99	MECHANICAL- BUILDINGS MATERIALS	Paver block	Compressive Strength	IS 15658
100	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Dimension (Thickness)	IS15658
101	MECHANICAL- BUILDINGS MATERIALS	Paver block	Flexural Strength	IS15658
102	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Freeze-Thaw Durability	IS 15658
103	MECHANICAL- BUILDINGS MATERIALS	Paver Block	Tensile Spliting Strength	IS15658
104	MECHANICAL- BUILDINGS MATERIALS	paver block	Water absorption	IS15658
105	MECHANICAL- BUILDINGS MATERIALS	Water Bound Macadam	Sieve analysis	.IS:2386(P-1)
106	MECHANICAL- BUILDINGS MATERIALS	Water Bound Macadam(WBM)	Flakiness Index	IS 2386 (p-1)
107	MECHANICAL- BUILDINGS MATERIALS	Water Bound Macadam(WBM)	Los angeles abrasion Value	IS2386(P-4)
108	MECHANICAL- BUILDINGS MATERIALS	Water Bound Macadam(WBM)	Water absorption	IS2386(P-3)
109	MECHANICAL- BUILDINGS MATERIALS	Water Bound Mcadom (WBM)	Elongation Index	IS2386(P-1)
110	MECHANICAL- BUILDINGS MATERIALS	Water Bound Mcadom(WBM)	Impact Value	IS2386(P-1)



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111	MECHANICAL- BUILDINGS MATERIALS	Wet Mix Macadam(WMM)	Flakiness Index	IS2386(P-1)
112	MECHANICAL- BUILDINGS MATERIALS	Wet Mix Macadam (WMM)	Elongation Index	IS2386(P-1)
113	MECHANICAL- BUILDINGS MATERIALS	Wet Mix Macadam (WMM)	Impact Value	IS2386(P-4)
114	MECHANICAL- BUILDINGS MATERIALS	Wet Mix Macadam (WMM)	Sieve Analysis	IS 2386(P-1)
115	MECHANICAL- BUILDINGS MATERIALS	Wet Mix Macadam (WMM)	Water absorption	IS2386(P-3)
116	MECHANICAL- BUILDINGS MATERIALS	Wet Mix Macadam(Wet Mix Macadam)	Loss Angeles abrasion Value	IS2386(P-4)
117	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Structure/TMT bar	Bend Test (Mandrel- 16,20,24,30,32,36,40,48,50,56, 60,64,70,72,75,80,84,96,100,112,120,125,128,140,160,175, mm	IS1599
118	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Structure/TMT Bar	Yield Stress	IS1608(PT-1)
119	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structure Steel/TMT Bar	Elongation	IS1608(PT-1)
120	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structure Steel/TMT Bar	Rebend Test(Mandrel 32,40,48,50,56,60,64,70,76,80, 84,96,100,112,120,125,128,140,150,160,175,192,224 mm	IS1786
121	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structure Steel/TMT Bar	Specimen Mass	IS 1786
122	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structure Steel/TMT Bar	Tensile Strength	IS1608(PT-1)
123	MECHANICAL- SOIL AND ROCK	Bentonite	Liquid Limit	IS2720(P-5)
124	MECHANICAL- SOIL AND ROCK	Bentonite	Marsh Cone Viscosity	ASTMD6910
125	MECHANICAL- SOIL AND ROCK	Bentonite	Moisture Content	IS 6186



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126	MECHANICAL- SOIL AND ROCK	Bentonite	pH	IS 6186
127	MECHANICAL- SOIL AND ROCK	Bentonite	Sand Content	IS6186
128	MECHANICAL- SOIL AND ROCK	Bentonite	Swelling Power	IS 6186
129	MECHANICAL- SOIL AND ROCK	Blanketing Material	California bearing ratio (CBR)	IS2720(P-16)
130	MECHANICAL- SOIL AND ROCK	Blanketing Material	Maximum dry density (MDD)	IS2720(P-8)
131	MECHANICAL- SOIL AND ROCK	Blanketing Material	Optimum Moisture Content (OMC)	IS2720(P-8)
132	MECHANICAL- SOIL AND ROCK	Blanketing Material	Sieve Analysis@4.75 mm	GE:IR-2,RDSO2007/GE0014200 7/ IS2386(P-1)
133	MECHANICAL- SOIL AND ROCK	Granular Sub Base (GSB)	California bearing Ratio (CBR)	IS2720(P-16)
134	MECHANICAL- SOIL AND ROCK	Granular Sub Base (GSB)	Liquid Limit	IS2720(P-5)
135	MECHANICAL- SOIL AND ROCK	Granular Sub Base (GSB)	Maximum dry density (MDD)	IS2720(P-8)
136	MECHANICAL- SOIL AND ROCK	Granular Sub Base (GSB)	Optimum Moisture Content(OMC)	IS2720(P-8)
137	MECHANICAL- SOIL AND ROCK	Granular Sub Base (GSB)	Plastic Limit	IS2720(P-5)
138	MECHANICAL- SOIL AND ROCK	Soil	Direct Shear Test(Internal Friction Phi Value)	IS 2720 (P-13)
139	MECHANICAL- SOIL AND ROCK	Soil	Grain Size Analysis by Dry Sieving Method	IS 2720 (P-4)
140	MECHANICAL- SOIL AND ROCK	Soil & Rock	CBR (Soak)	IS2720(P-16)
141	MECHANICAL- SOIL AND ROCK	Soil & Rock	CBR (Un-Soak)	IS2720(P-16)
142	MECHANICAL- SOIL AND ROCK	Soil & Rock	Coefficient of Consolidation	IS 2720(P-15)
143	MECHANICAL- SOIL AND ROCK	Soil & Rock	Direct Shear Test Cohesion Intercept (C), Angel of internal Friction	IS 2720(P-13)



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144	MECHANICAL- SOIL AND ROCK	Soil & Rock	Dry Shrinkage	IS 20720(P-6)
145	MECHANICAL- SOIL AND ROCK	Soil & Rock	Free Swell Index	IS 2720(P-40)
146	MECHANICAL- SOIL AND ROCK	Soil & Rock	Grain Size (75 micron) and Hydrometer Analysis	IS2720(p-4)
147	MECHANICAL- SOIL AND ROCK	Soil & Rock	Liquid Limit	IS 2720 (P-5)
148	MECHANICAL- SOIL AND ROCK	Soil & Rock	Maximum Dry Density (Light Compaction)	IS2720(P-7)
149	MECHANICAL- SOIL AND ROCK	Soil & Rock	Maximum Dry Density(MDD) Heavy Compaction	IS 2720(P-8)
150	MECHANICAL- SOIL AND ROCK	Soil & Rock	Optimum Moisture Content (OMC) Heavy Compaction	IS2720(P-8)
151	MECHANICAL- SOIL AND ROCK	Soil & Rock	Optimum Moisture Content(OMC) Light Compaction	IS 2720(P-7)
152	MECHANICAL- SOIL AND ROCK	Soil & Rock	Permeability Test	IS2720(P-17)
153	MECHANICAL- SOIL AND ROCK	Soil & Rock	Triaxial Shear Test Cohesion Intercept (C), Angel of internal Friction	IS2720(P-11)
154	MECHANICAL- SOIL AND ROCK	Soil & Rock	Water Content	IS 2720 (P-2)
155	MECHANICAL- SOIL AND ROCK	Soil &Rock	Specific Gravity	IS2720(P-3)/Sec-1
156	MECHANICAL- SOIL AND ROCK	Soil or Rock	Plastic Limit	IS2720(P-5)
157	MECHANICAL- SOIL AND ROCK	Wet Mix Macadam (WMM)	Maximum dry density (MDD)	IS2720(P-8)
158	MECHANICAL- SOIL AND ROCK	Wet Mix Macadam (WMM)	Optimum Moisture Content(OMC)	IS2720(P-8)
159	MECHANICAL- SOIL AND ROCK	Wet Mix Macadam (WMM)	Plastic Limit	IS2720(P-5)



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Site Facility				
1	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregate	Bulking of Sand	IS2386(P-3)
2	MECHANICAL- SOIL AND ROCK	Soil & Rock	Density by Sand replacement Method	IS 2720(P-28)
3	MECHANICAL- SOIL AND ROCK	Soil & Rock	Field Density by Core- Cutter Method	IS2720 (P-29)